

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	10/826176	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/30 14:33
S2	1	S1 and (substr\$4 same lens\$4 same pad\$2 same lines same keys)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/26 15:44
S3	4	("6641310" "5917976" "6375512" "6536957"). pn.	US-PGPUB; USPAT	OR	OFF	2006/04/26 15:46
S4	2	S3 and (conduct\$4 wir\$4 lines pad\$1) and (lens\$3 microlens\$3 laser sourc \$2 detect\$4 photod\$3 photo photodetect\$5)	US-PGPUB; USPAT	OR	OFF	2006/04/26 15:53
S5	0	S3 and (conduct\$4 wir\$4 lines pad\$1) and (lens\$3 microlens\$3 laser sourc \$2 detect\$4 photod\$3 photo photodetect\$5) and (ic intergrated near2 circuit\$2)	US-PGPUB; USPAT	OR	OFF	2006/04/26 16:35
S6	2	S3 and (conduct\$4 wir\$4 lines pad\$1) and (lens\$3 microlens\$3 laser sourc \$2 detect\$4 photod\$3 photo photodetect\$5) and (ic intergrated near2 circuit\$2 chip\$1)	US-PGPUB; USPAT	OR	OFF	2006/04/26 16:07
S7	2	S3 and (conduct\$4 wir\$4 lines pad\$1) same (lens \$3 microlens\$3 laser sourc\$2 detect\$4 photod \$3 photo photodetect\$5) and (ic intergrated near2 circuit\$2 chip\$1)	US-PGPUB; USPAT	OR	OFF	2006/04/26 16:08
S8	1	S3 and (conduct\$4 wir\$4 lines pad\$1) same (lens \$3 microlens\$3) and (emit\$4 laser sourc\$2 detect\$4 photod\$3 photo photodetect\$5) and (ic intergrated near2 circuit \$2 chip\$1)	US-PGPUB; USPAT	OR	OFF	2006/04/26 16:11
S9	1	S3 and (conduct\$4 wir\$4 lines pad\$1) same (lens \$3 microlens\$3)	US-PGPUB; USPAT	OR	OFF	2006/04/26 18:10

S10	4	S3 and (conduct\$4 wir\$4 lines pad\$1 lens\$3 microlens\$3)	US-PGPUB; USPAT	OR	OFF	2006/04/26 16:12
S11	1	S9 and (conduct\$4 wir\$4 lines pad\$1 lens\$3 microlens\$3)	US-PGPUB; USPAT	OR	OFF	2006/04/26 16:12
S12	1	S3 and ((conduct\$4 electr\$4) near4 lines wir\$4 pad\$1) same (lens\$3 microlens\$3) and (((conduct\$4 electr\$4) near4 lines wir\$4 pad\$1) (lens\$3 microlens\$3)) same substrat\$4	US-PGPUB; USPAT	OR	OFF	2006/04/26 16:30
S13	1	S1 and ((conduct\$4 electr\$4) near4 lines wir\$4 pad\$1) same (lens\$3 microlens\$3) and (((conduct\$4 electr\$4) near4 lines wir\$4 pad\$1) (lens\$3 microlens\$3)) same substrat\$4	US-PGPUB; USPAT	OR	OFF	2006/04/26 16:31
S14	1	S3 and ((conduct\$4 electr\$4) near4 lines wir\$4 pad\$1) same (lens\$3 microlens\$3) same (((conduct\$4 electr\$4) near4 lines wir\$4 pad\$1) (lens\$3 microlens\$3)) same substrat\$4	US-PGPUB; USPAT	OR	OFF	2006/04/26 16:31
S15	1	S1 and ((conduct\$4 electr\$4) near4 lines wir\$4 pad\$1) same (lens\$3 microlens\$3) same (((conduct\$4 electr\$4) near4 lines wir\$4 pad\$1) (lens\$3 microlens\$3)) same substrat\$4	US-PGPUB; USPAT	OR	OFF	2006/04/26 16:32
S16	3561	((conduct\$4 electr\$4) near4 lines wir\$4 pad\$1) same (lens\$3 microlens\$3) same (((conduct\$4 electr\$4) near4 lines wir\$4 pad\$1) (lens\$3 microlens\$3)) same substrat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/26 18:54
S17	129273	driv\$4 same (chip\$1 ic intergrated near2 circuit \$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/26 17:14
S18	0	S9 and S17	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/26 16:38

S19	0	S8 and driv\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/26 16:38
S20	1	S8 and engin\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/26 16:38
S22	733712	(control\$4 driv\$4 process \$4 cpu) same (emit4 laser \$1 sourc\$2 detect\$4 photod\$3 photo photodetect\$5 chip\$1 ic intergrated near2 circuit \$2) same (pcb pc carr\$4 substr\$4 board\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/26 16:53
S23	38797	align\$5 same (emit4 laser \$1 sourc\$2 detect\$4 photod\$3 photo photodetect\$5) same substrat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/26 17:11
S24	47457	(align\$5 same optic\$4). ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/26 17:11
S25	23	S16 and S17 and S22 and S23 and S24	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/26 17:16
S26	18	S25 and (lenses microlenses (lens\$4 microlens\$4) near2 (plural\$4 array\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/26 17:18
S27	17	S26 and (circuit\$3 board \$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/26 18:09
S28	5	("20040022487" "20030201462" "20020105699" "6690845" "6636653"). pn.	US-PGPUB; USPAT	OR	OFF	2006/04/26 18:54
S29	3	S28 and (align\$5 near14 (pin\$1 mark\$4 rod\$1 key \$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/26 19:10
S30	1	("20030201462").pn.	US-PGPUB; USPAT	OR	OFF	2006/04/26 18:54
S32	1	S31 and (conduct\$4 electr \$4 lines wir\$4 pad\$1 lens \$3 microlens\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/26 19:11
S33	1	S30 and S16	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/26 18:59

S34	1	S31 and (conduct\$4 electr\$4 lines wir\$4 pad\$1 lens\$3 microlens\$3) and (align\$5 near\$14 (pin\$1 mark\$4 rod\$1 key\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/26 19:11
S35	1	("20030201462").pn.	US-PGPUB; USPAT	OR	OFF	2006/04/27 11:18
S36	1	S35 and (transparen\$4 translus\$4 glass\$2 prism\$1 sio\$2)	US-PGPUB; USPAT	OR	OFF	2006/04/27 11:19
S37	1	10/826176	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/30 14:33
S38	0	S37 and (alignm\$4 near\$7 key\$2) and key\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/30 14:34
S39	1	S37 and (alignm\$4 near\$7 key\$2) and key\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/30 14:54
S40	1	("20030201462").pn.	US-PGPUB; USPAT	OR	OFF	2007/05/30 14:44
S41	1	S40 and align\$5	US-PGPUB; USPAT	OR	OFF	2007/05/30 14:44
S42	1	S37 and (alignm\$4 near\$7 key\$2) same (activ\$3 laser\$3 emit\$4 ld\$1 receiv\$4 detect\$4 pd\$1 photo diod\$2 photod\$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/30 15:34
S43	0	S37 and (rods near\$7 protrud\$4 near\$7 substrat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/30 15:31
S44	1	S40 and (alignm\$4) same (activ\$3 laser\$3 emit\$4 ld\$1 receiv\$4 detect\$4 pd\$1 photo diod\$2 photod\$7 sourc\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/30 15:37
S45	1	S40 and (alignm\$4) same (activ\$3 laser\$3 emit\$4 ld\$1 receiv\$4 detect\$4 pd\$1 photo diod\$2 photod\$7 sourc\$2) and (transmi\$5 receiv\$4 transceiv\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/30 15:39
S46	1	S40 and (alignm\$4) same (activ\$3 laser\$3 emit\$4 ld\$1 receiv\$4 detect\$4 pd\$1 photo diod\$2 photod\$7 sourc\$2) and (optoelectron\$4 same (transmi\$5 receiv\$4 transceiv\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/30 15:43

S47	1	S40 and (alignm\$4) same (activ\$3 laser\$3 emit\$4 ld\$1 detect\$4 pd \$1 photo diod\$2 photod \$7 sourc\$2) and (optoelectron\$4 same (transmi\$5 receiv\$4 transceiv\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/30 15:50
S48	1	S40 and (alignm\$4) same (OE activ\$3 laser\$3 emit\$4 ld\$1 detect\$4 pd \$1 photo diod\$2 photod \$7 sourc\$2) and (optoelectron\$4 same (transmi\$5 receiv\$4 transceiv\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/30 15:51
S49	1	S40 and (alignm\$4) same (OE activ\$3 laser\$3 emit\$4 ld\$1 detect\$4 pd \$1 photo diod\$2 photod \$7 sourc\$2) and (optoelectron\$4 same (transmi\$5 receiv\$4 transceiv\$4)) and substrat \$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/30 15:52
S50	1	S40 and (alignm\$4) same (vsel\$1 OE activ\$3 laser\$3 emit\$4 ld\$1 detect\$4 pd\$1 photo diod \$2 photod\$7 sourc\$2) and (optoelectron\$4 same (transmi\$5 receiv \$4 transceiv\$4)) and substrat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/30 16:32
S51	1	S40 and (align\$5) same (optoelectron\$4 vsel\$1 OE activ\$3 laser\$3 emit \$4 ld\$1 detect\$4 pd\$1 photo diod\$2 photod\$7 sourc\$2) and (optoelectron\$4 same (transmi\$5 receiv\$4 transceiv\$4)) and substrat \$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/30 16:47
S52	1	S40 and (vsel\$1 activ\$3 laser\$3 emit\$4 ld\$1 sourc \$2) and ((OE optoelectron \$4) near12 (transmi\$5 receiv\$4 transceiv\$4)) and (lens\$4 microlens\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/30 16:50

S53	1	S40 and (vsel\$1 activ\$3 laser\$3 emit\$4 ld\$1 sourc\$2) same (lens\$4 microlens\$4) and ((OE optoelectron\$4) near12 (transmi\$5 receiv\$4 transceiv\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/30 16:52
S54	1	S40 and (vsel\$1 activ\$3 laser\$3 emit\$4 ld\$1 sourc\$2) same (lens\$4 microlens\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/30 16:54
S55	1	S40 and (vsel\$1 activ\$3 laser\$3 emit\$4 ld\$1 sourc\$2) same (lens\$4 microlens\$4) and (vsel\$1 activ\$3 laser\$3 emit\$4 ld\$1 sourc\$2) and (lens\$4 microlens\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/11/20 16:26
S56	1	S40 and (vcsl\$1 activ\$3 laser\$3 emit\$4 ld\$1 sourc\$2) same (lens\$4 microlens\$4) and (vsel\$1 activ\$3 laser\$3 emit\$4 ld\$1 sourc\$2) and (lens\$4 microlens\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/30 16:56
S57	1	(US-20030201462-\$).did.	US-PGPUB	OR	OFF	2007/11/20 16:26
S58	1	("20030201462").pn.	US-PGPUB; USPAT	OR	OFF	2007/11/20 16:26
S59	1	S58 and (vsel\$1 activ\$3 laser\$3 emit\$4 ld\$1 sourc\$2) same (lens\$4 microlens\$4) and (vsel\$1 activ\$3 laser\$3 emit\$4 ld\$1 sourc\$2) and (lens\$4 microlens\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/11/20 17:12
S60	1	S58 and (vsel\$1 activ\$3 laser\$3 emit\$4 ld\$1 sourc\$2 optoelectron\$4 chip\$3) same (lens\$4 microlens\$4) and (vsel\$1 activ\$3 laser\$3 emit\$4 ld\$1 sourc\$2 optoelectron\$4 chip\$3) and (lens\$4 microlens\$4) and (pin\$3 rod\$1 mark\$3 alignm\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/11/20 17:20

S61	1	S58 and (vsel\$1 activ\$3 laser\$3 emit\$4 ld\$1 sourc\$2 optoelectron\$4 chip\$3) same (lens\$4 microlens\$4) and (vsel\$1 activ\$3 laser\$3 emit\$4 ld\$1 sourc\$2 optoelectron\$4 chip\$3) and (lens\$4 microlens\$4) and (pin\$3 rod\$1 mark\$3 alignm\$5 substrate\$1 support\$4 base)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/11/20 17:42
S62	1	S58 and (vsel\$1 activ\$3 laser\$3 emit\$4 ld\$1 sourc\$2 optoelectron\$4 chip\$3 oe) same (pin\$3 rod\$1 mark\$3 alignm\$5 substrate\$1 support\$4 base)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/11/20 17:44
S63	1	S58 and (vsel\$1 activ\$3 laser\$3 emit\$4 ld\$1 sourc\$2 optoelectron\$4 chip\$3 oe) same (pin\$3 rod\$1 mark\$3 alignm\$5) same (substrate\$1 support\$4 base)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/11/20 17:44
S64	1	("20030201462").pn.	US-PGPUB; USPAT	OR	OFF	2008/03/24 11:44
S65	1	S64 and (vsel\$1 activ\$3 laser\$3 emit\$4 ld\$1 sourc\$2 optoelectron\$4 chip\$3 oe) same (pin\$3 rod\$1 mark\$3 alignm\$5) same (substrate\$1 support\$4 base)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/03/24 11:44
S66	1	10/826176	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/03/24 11:46
S67	1	S66 and key\$3 same align\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/03/24 11:46
S68	5397	((conduct\$4 electr\$4) near4 lines wir\$4 pad\$1) same (lens\$3 microlens\$3) same (((conduct\$4 electr\$4) near4 lines wir\$4 pad\$1) (lens\$3 microlens\$3)) same substrat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/07/07 17:55
S69	171483	driv\$4 same (chip\$1 ic integrated near2 circuit\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/07/07 17:55

S70	935429	(control\$4 driv\$4 process \$4 cpu) same (emit4 laser \$1 sourc\$2 detect\$4 photod\$3 photo photodetect\$5 chip\$1 ic intergrated near2 circuit \$2) same (pcb pc carr\$4 substr\$4 board\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/07/07 17:55
S71	50284	align\$5 same (emit4 laser \$1 sourc\$2 detect\$4 photod\$3 photo photodetect\$5) same substrat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/07/07 17:55
S72	53749	(align\$5 same optic\$4). ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/07/07 17:55
S73	30	S68 and S69 and S70 and S71 and S72	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/07/07 17:55

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